GPUpartner

VALIDATION REPORT · IMAGE GENERATION

Stable Diffusion 3.5 Large

on RTX 4060 Ti 16 GB · 8-bit (FP8 · Q8_0)

STATUS · OCT 22, 2026

Not validated

2 of 3 checks pass

Stable Diffusion 3.5 Large at 8-bit runs on the RTX 4060 Ti 16 GB, about 2.9 min per image.

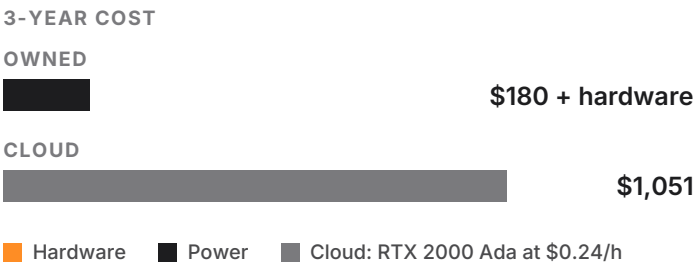
VALIDATION

CHECK	TARGET	RESULT	STATUS
Fits in GPU memory	16.0 GB usable	8.8 GB needed	PASS
Headroom	5% free	7.2 GB free (45%)	PASS
Time per image	under 30 s	2.9 min	FAIL

Targets: an image in under 30 s, and 5% of memory left free. Calculated from published specs, not benchmarked.

BUDGET

HARDWARE, ONE-TIME	MSRP not entered
POWER, PER YEAR	$60 · 229 W at the wall
CLOUD INSTEAD, PER YEAR	$350
3-YEAR TOTAL, OWNED	Hardware + $180 power
3-YEAR TOTAL, CLOUD	$1,051
BREAK-EVEN	Needs the hardware MSRP



Budget basis: 4 h a day, power at $0.18 per kWh, cloud at RunPod on-demand prices as of Oct 22, 2026. Hardware at the MSRP entered in the calculator, not a GPU Partner quote. A 3-year view; resale value, staff time and taxes aren't counted.

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TECHNICAL DETAIL · IMAGE GENERATION

Stable Diffusion 3.5 Large

on RTX 4060 Ti 16 GB · 8-bit (FP8 · Q8_0)

SETUP

PARAMETERS	8.1B
PRECISION	8-bit (FP8 · Q8_0)
OUTPUT	1024 × 1024
STEPS	28
HARDWARE	RTX 4060 Ti 16 GB
GPU CAN USE	16.0 GB of 16.0 GB

MEMORY

WEIGHTS	7.9 GB
WORKING	171 MB
RUNTIME	819 MB
SYSTEM	0.0 GB
FREE	7.2 GB

SAME MODEL, OTHER MACHINES

RTX 4090	16-bit · 48 s
RTX 5090	16-bit · 38 s
RTX PRO 6000 BLACKWELL	16-bit · 16 s
M5 MAX 128 GB	16-bit · 2.5 min
M3 ULTRA 256 GB	16-bit · 4.7 min
DGX SPARK 128 GB	16-bit · 2.1 min
RYZEN AI MAX+ 395 128 GB	16-bit · 3.7 min

WHERE TO GET IT

FP8	huggingface.co/Comfy-Org/stable-diffusion-3.5-fp8
GGUF	huggingface.co/city96/stable-diffusion-3.5-large-gguf
OFFICIAL	huggingface.co/stabilityai/stable-diffusion-3.5-large

METHOD AND ASSUMPTIONS

Memory is the denoiser's weights at the chosen precision plus the bigger of one transformer block's working set and the VAE decode, plus the runtime; the text encoders run first and then wait in system RAM. Time is the denoising FLOPs per step times the steps, against the chip's dense 16-bit TFLOPS, scaled to published GeForce runs of this model. Running cost is power at the wall at your rate and hours; the cloud figure is the cheapest RunPod on-demand GPU that runs the same job. Accuracy: memory lands within about a gigabyte; speeds and times are rough, about ±25%. Model data and hardware specs checked Oct 2026; cloud prices are RunPod's on-demand list as of Oct 22, 2026. Report VR-00VG4O0, generated October 22, 2026.